

10/540,993

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PASSWORD:

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SESSION RESUMED IN FILE 'CAPLUS' AT 11:50:37 ON 17 MAR 2010
FILE 'CAPLUS' ENTERED AT 11:50:37 ON 17 MAR 2010
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	58.29	250.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.65	-7.65

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	58.29	250.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.65	-7.65

FILE 'REGISTRY' ENTERED AT 11:50:44 ON 17 MAR 2010
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1
DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading c:\program files\stnexp\queries\10540993 3.17.10

L5 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 11:51:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 467 TO ITERATE

100.0% PROCESSED 467 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8044 TO 10636

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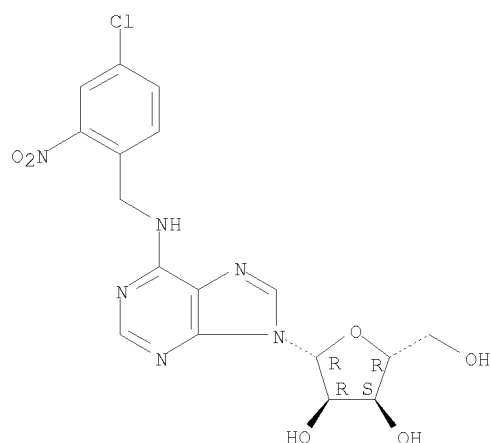
PROJECTED ANSWERS: 56 TO 504

L6 14 SEA SSS SAM L5

=> d scan

L6 14 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Adenosine, N-[(4-chloro-2-nitrophenyl)methyl]- (9CI)
MF C17 H17 Cl N6 O6

Absolute stereochemistry.

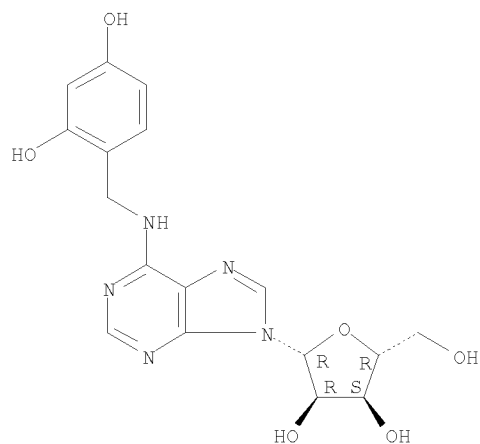


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L6 14 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Adenosine, N-[(2,4-dihydroxyphenyl)methyl]- (9CI)
MF C17 H19 N5 O6

Absolute stereochemistry.



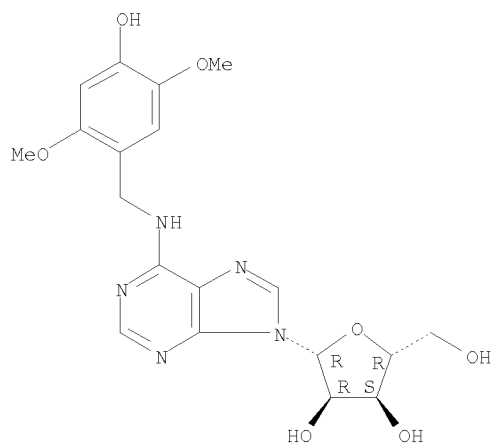
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 14 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Adenosine, N-[(4-hydroxy-2,5-dimethoxyphenyl)methyl]- (9CI)
MF C19 H23 N5 O7

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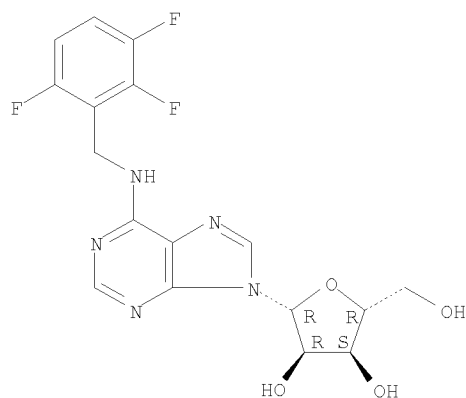
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 14 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Adenosine, N-[(2,3,6-trifluorophenyl)methyl]-
MF C17 H16 F3 N5 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d 15

L5 HAS NO ANSWERS

L5 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 10:51:09 ON 17 MAR 2010)

FILE 'REGISTRY' ENTERED AT 10:51:21 ON 17 MAR 2010

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L1 STRUCTURE UPLOADED
L2 14 S L1
L3 249 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:52:11 ON 17 MAR 2010
L4 48 S L3

FILE 'REGISTRY' ENTERED AT 11:50:44 ON 17 MAR 2010
L5 STRUCTURE UPLOADED
L6 14 S L5

=> s l5 full
FULL SEARCH INITIATED 11:55:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8800 TO ITERATE

100.0% PROCESSED 8800 ITERATIONS 242 ANSWERS
SEARCH TIME: 00.00.01

L7 242 SEA SSS FUL L5

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 195.95 446.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
 ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -7.65

FILE 'CAPLUS' ENTERED AT 11:56:38 ON 17 MAR 2010
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FILE COVERS 1907 - 17 Mar 2010 VOL 152 ISS 12
FILE LAST UPDATED: 16 Mar 2010 (20100316/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 192 L7

=> d bib abs hitstr 180-192

L8 ANSWER 180 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1974:121282 CAPLUS
DN 80:121282
OREF 80:19535a,19538a
TI 2',3',5'-Tri-O-acyl-N6-benzyladenosines
IN Kampe, Wolfgang; Pauland, Erich; Thiel, Max; Roesch, Egon; Dietmann, Karl
PA Boehringer Mannheim G.m.b.H.
SO Ger. Offen., 12 pp.

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10/540,993

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2238923	A1	19740214	DE 1972-2238923	19720808
	CA 1003411	A1	19770111	CA 1973-177826	19730731
	GB 1384518	A	19750219	GB 1973-36489	19730801
	AU 7358857	A	19750206	AU 1973-58857	19730802
	CH 579587	A5	19760915	CH 1973-11307	19730803
	FR 2195434	A1	19740308	FR 1973-28648	19730806
	ZA 7305331	A	19740828	ZA 1973-5331	19730806
	NL 7310870	A	19740212	NL 1973-10870	19730807
	AT 7306918	A	19750115	AT 1973-6918	19730807
	AT 325784	B	19751110		
	JP 49045095	A	19740427	JP 1973-89161	19730808
PRAI	DE 1972-2238923	A	19720808		

GI For diagram(s), see printed CA Issue.

AB Eight acyladenosines I (R = Ac, Bz, or nicotinoyl, Rn1 = 2-Me, 2,5-Me2, 2,4,5-Me3, 2,5-MeOCl, or 2,5-MeSCl) were prepared in 45-85% yield by acylation of I (R = H) with Ac2O, BzCl, or nicotinoyl azide. The acyl derivs. had longer lasting effects on blood vessels and circulation than the starting compds. I (R = H).

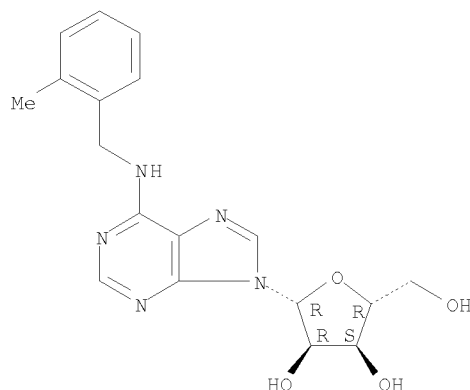
IT 23707-33-7 34349-31-0 34349-38-7
52622-05-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of)

RN 23707-33-7 CAPLUS

CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

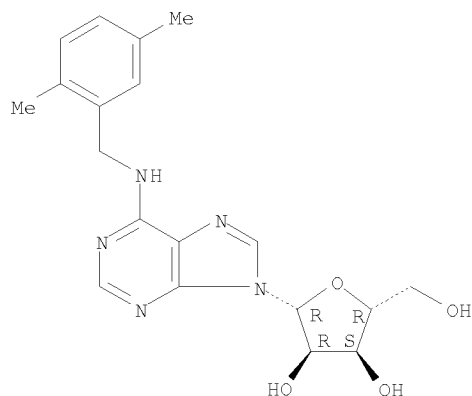


RN 34349-31-0 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

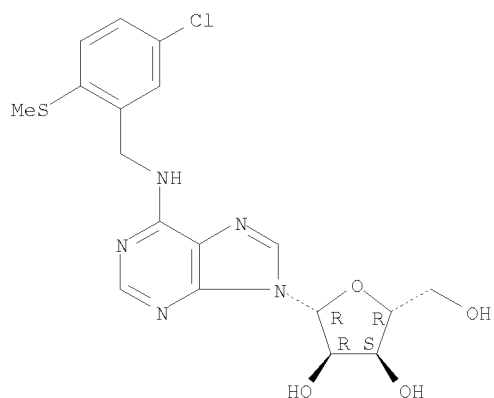
10/540,993



RN 34349-38-7 CAPLUS

CN Adenosine, N-[[5-chloro-2-(methylthio)phenyl]methyl]- (9CI) (CA INDEX NAME)

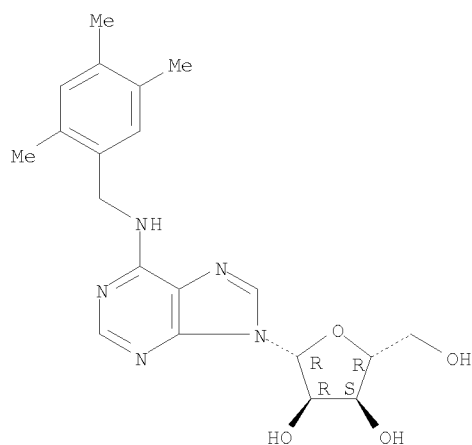
Absolute stereochemistry.



RN 52622-05-6 CAPLUS

CN Adenosine, N-[(2,4,5-trimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

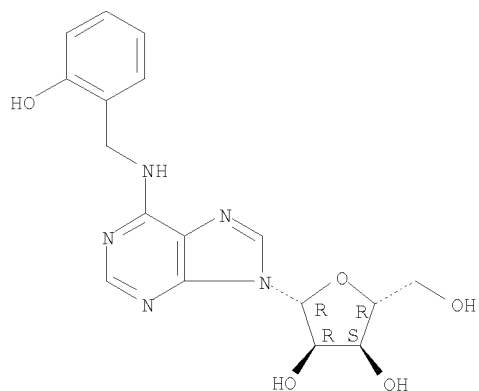
L8 ANSWER 181 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN

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AN 1974:93268 CAPLUS
DN 80:93268
OREF 80:14999a,15002a
TI Cytokinins in Populus x robusta. Light effects on endogenous levels
AU Hewett, E. W.; Wareing, P. F.
CS Dep. Bot. Microbiol., Univ. Coll. Wales, Aberystwyth, UK
SO Planta (1973), 114(2), 119-29
CODEN: PLANAB; ISSN: 0032-0935
DT Journal
LA English
AB Cytokinin levels in both attached and detached mature leaves of poplar (P. robusta) increased transiently after short periods of exposure to red light. The degree and rapidity of response seems dependent on the physiol. condition of the leaves. The cytokinin, 6-(2-hydroxybenzyl)aminopurine riboside, specifically increased after red light treatment. Diurnal changes of leaf cytokinins occurred, with a pronounced peak of activity being present at daybreak.
IT 50868-58-1
RL: BIOL (Biological study)
(of poplar, red light effect on)
RN 50868-58-1 CAPLUS
CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

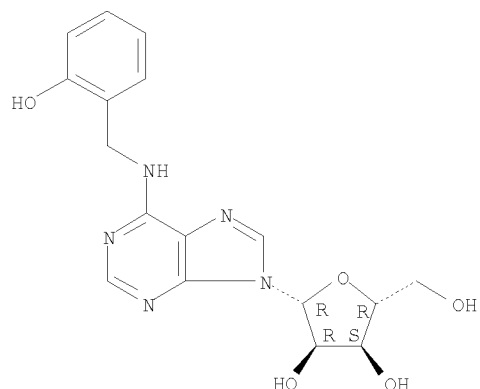


OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L8 ANSWER 182 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1973:534312 CAPLUS
DN 79:134312
OREF 79:21771a,21774a
TI New cytokinin from Populus robusta
AU Horgan, R.; Hewett, E. W.; Purse, J. G.; Wareing, P. F.
CS Dep. Bot. Microbiol., Univ. Coll. Wales, Aberystwyth, UK
SO Tetrahedron Letters (1973), (30), 2827-8
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB A new cytokinin was isolated from the leaves of P. robusta and shown to be 6-[(o-hydroxybenzyl)amino]-9- β -D-ribofuranosylpurine (I).
IT 50868-58-1
RL: BIOL (Biological study)
(in Populus robusta)
RN 50868-58-1 CAPLUS
CN Adenosine, N-[(2-hydroxyphenyl)methyl]- (CA INDEX NAME)

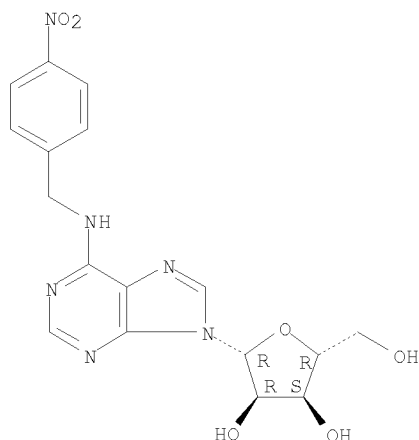
Absolute stereochemistry.

McIntosh



L8 ANSWER 183 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1973:413413 CAPLUS
 DN 79:13413
 OREF 79:2119a,2122a
 TI Inhibitors of nucleoside and nucleotide metabolism
 AU Henderson, J. F.; Paterson, A. R. P.; Caldwell, I. C.; Paul, B.; Chan, M. C.; Lau, K. F.
 CS Cancer Res. Unit, Univ. Alberta, Edmonton, AB, Can.
 SO Cancer Chemotherapy Reports, Part 2 (1973), 3(1), 71-85
 CODEN: CCSUBJ; ISSN: 0069-0120
 DT Journal
 LA English
 AB A total of 164 purine and pyrimidine derivs. and analogs were screened for inhibition of nucleoside and nucleotide metab in 4 test systems. Among a number of potent inhibitors identified, N6-(3-methyl-2-butenyl)-adenosine [7724-76-7] and 4-(dimethylamino)-7- β -D-ribofuranosyl-7H-pyrrolo[2,3-d]pyrimidine (I) [20371-00-0] inhibited de novo purine biosynthesis in incubated Ehrlich ascites tumor cells, α -(9-amino-9H-purin-9-yl)- α' -(hydroxymethyl)diglycolaldehyde-bis(phenylhydrazone) (II) [40297-52-7] inhibited adenine phosphoribosyltransferase [9027-80-9] from Ehrlich ascites tumor cells, 4-amino-5-iodo-7- β -D-ribofuranosyl-7H-pyrrolo[2,3-d]pyrimidine [24386-93-4] inhibited adenine kinase [9027-72-9] activity in tumor cell exts., and 2-amino-6-[(p-fluorobenzyl)thio]-9- β -D-ribofuranosyl-9H-purine (III) [40297-53-8] and N6-(p-nitrobenzyl)-adenosine [40297-54-9] inhibited nucleoside transport (inosine synthesis) in incubated human erythrocytes.
 IT 40297-54-9
 RL: BIOL (Biological study)
 (inosine formation by erythrocytes in response to)
 RN 40297-54-9 CAPLUS
 CN Adenosine, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 184 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1973:124846 CAPLUS
 DN 78:124846
 OREF 78:20071a,20074a
 TI N-Benzyladenosine derivatives
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Juhran, Wolfgang; Stork, Harald
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2136624	A	19730208	DE 1971-2136624	19710722
	GB 1340643	A	19731212	GB 1972-33537	19720618
	US 3845035	A	19741029	US 1972-271098	19720712
	ZA 7204891	A	19730530	ZA 1972-4891	19720717
	CH 569035	A5	19751114	CH 1975-10617	19720719
	CH 570420	A5	19751215	CH 1972-10795	19720719
	NL 7210023	A	19730124	NL 1972-10023	19720720
	CA 979891	A1	19751216	CA 1972-147625	19720720
	SU 539532	A3	19761215	SU 1972-1812966	19720720
	FR 2146493	A1	19730302	FR 1972-26450	19720721
	AT 317446	B	19740826	AT 1972-6288	19720721
	AT 790673	A	19750415	AT 1973-7906	19720721
PRAI	DE 1971-2136624	A	19710722		

GI For diagram(s), see printed CA Issue.

AB Thirty-three title compds. (I; X = NHCH₂C₆H₅-nRn; R: = Cl, OH NH₂ or Br; Rn = e.g. 2-OH, 3,2-HOMe, 2,5 HOCl, 2,4- HOCl) were prepared by reaction of I (X = Cl) containing free or acetyl group-protected OH-groups with H₂NCH₂C₆H₅-nRn or from the adenosine derivative and ClCH₂C₆H₅nRn. I had circulatory and antilipemic effects.

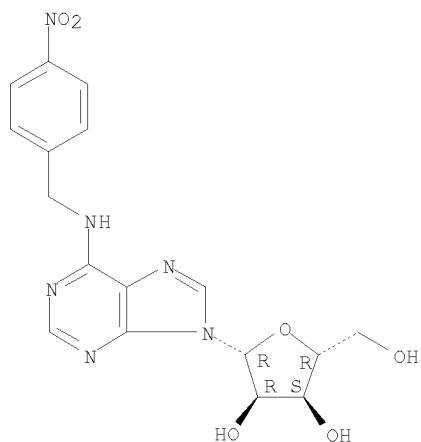
IT 40297-54-9P 40896-26-2P 40896-32-0P
 40896-39-7P 40896-40-0P 40896-41-1P
 40896-43-3P 40896-45-5P 40896-50-2P
 40896-52-4P 40958-96-1P 40958-97-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 40297-54-9 CAPLUS

CN Adenosine, N-[(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

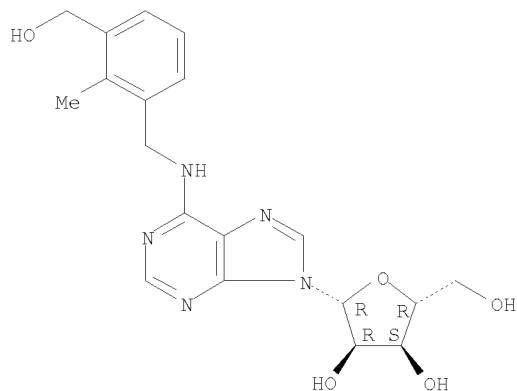
10/540,993



RN 40896-26-2 CAPLUS

CN Adenosine, N-[[3-(hydroxymethyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

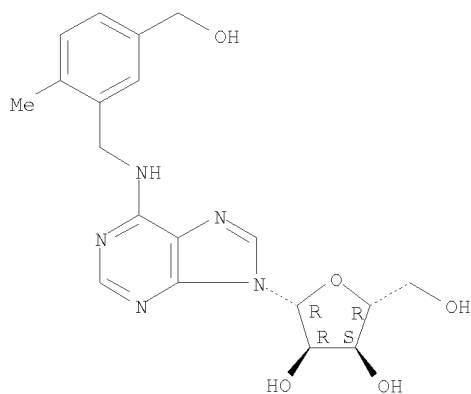
Absolute stereochemistry.



RN 40896-32-0 CAPLUS

CN Adenosine, N-[[5-(hydroxymethyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-39-7 CAPLUS

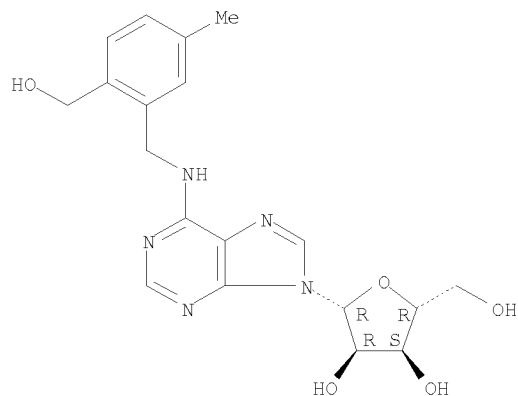
CN Adenosine, N-[[2-(hydroxymethyl)-5-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

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10/540,993

NAME)

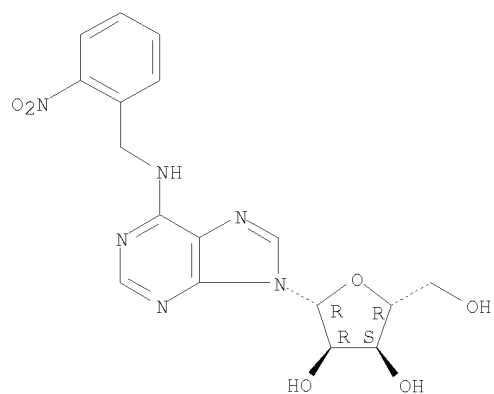
Absolute stereochemistry.



RN 40896-40-0 CAPLUS

CN Adenosine, N-[(2-nitrophenyl)methyl]- (CA INDEX NAME)

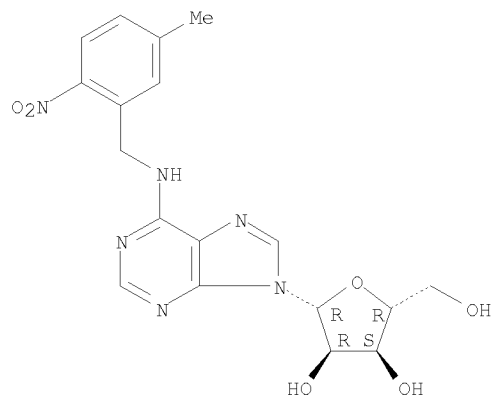
Absolute stereochemistry.



RN 40896-41-1 CAPLUS

CN Adenosine, N-[(5-methyl-2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



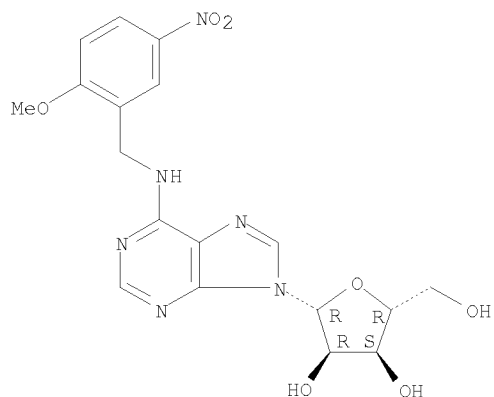
RN 40896-43-3 CAPLUS

CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

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10/540,993

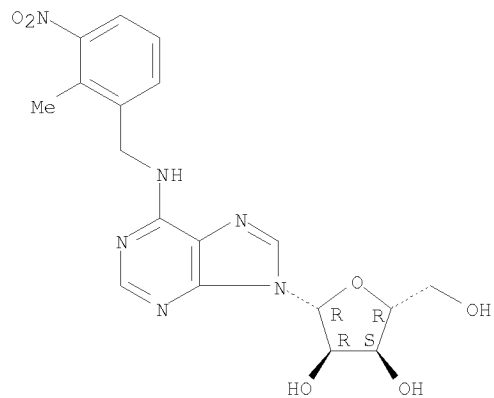
Absolute stereochemistry.



RN 40896-45-5 CAPLUS

CN Adenosine, N-[(2-methyl-3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

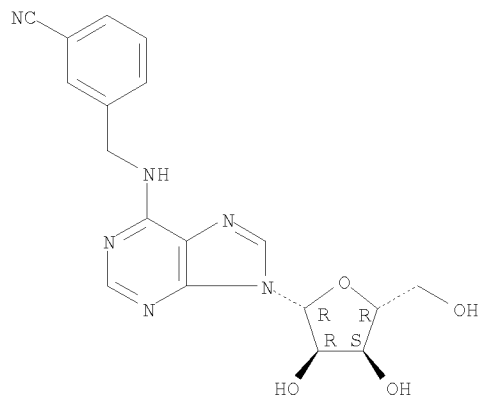
Absolute stereochemistry.



RN 40896-50-2 CAPLUS

CN Benzonitrile, 3-[[(9- β -D-ribofuranosyl-9H-purin-6-yl) amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



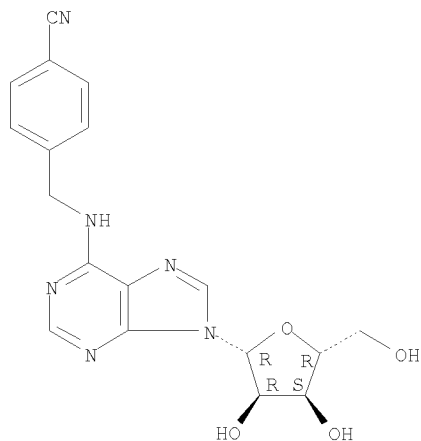
RN 40896-52-4 CAPLUS

CN Adenosine, N-[(4-cyanophenyl)methyl]- (CA INDEX NAME)

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10/540,993

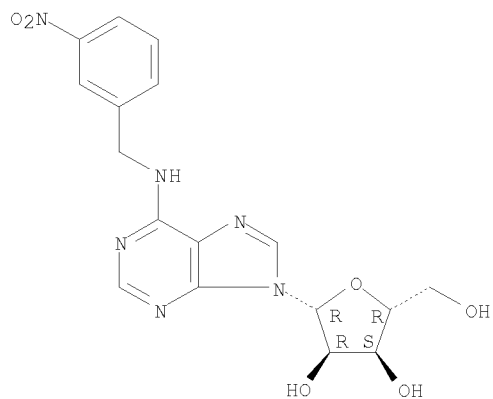
Absolute stereochemistry.



RN 40958-96-1 CAPLUS

CN Adenosine, N-[(3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

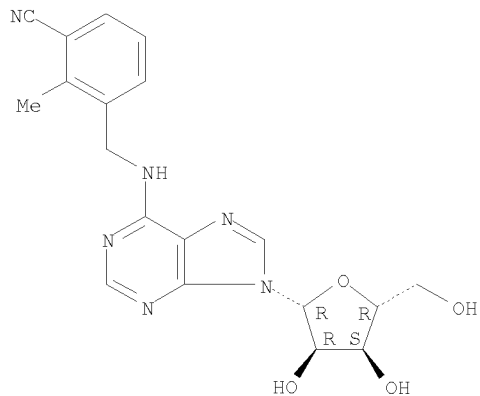
Absolute stereochemistry.



RN 40958-97-2 CAPLUS

CN Adenosine, N-[(3-cyano-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



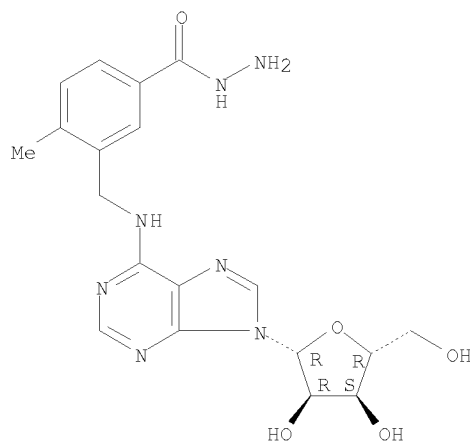
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

McIntosh

L8 ANSWER 185 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1972:502140 CAPLUS
 DN 77:102140
 OREF 77:16847a,16850a
 TI N-[[[(Hydrazinocarbonyl)phenyl]alkyl]adenosines
 IN Jahn, Werner; Kampe, Wolfgang; Fauland, Erich; Juhran, Wolfgang; Stork, Harald
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 14 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2060189	A	19720615	DE 1970-2060189	19701208
	US 3787391	A	19740122	US 1971-201174	19711122
	NL 7116564	A	19720612	NL 1971-16564	19711202
	GB 1313459	A	19730411	GB 1971-56025	19711202
	SU 444368	A3	19740925	SU 1971-1721738	19711202
	AU 7136492	A	19730607	AU 1971-36492	19711203
	CH 567045	A5	19750930	CH 1971-17640	19711203
	CH 568330	A5	19751031	CH 1975-8284	19711203
	CH 568331	A5	19751031	CH 1975-8285	19711203
	ZA 7108177	A	19720927	ZA 1971-8177	19711207
	HU 163227	B	19730728	HU 1971-B01335	19711207
	AT 312172	B	19731227	AT 1971-10533	19711207
	AT 318821	B	19741125	AT 1972-9168	19711207
	AT 318822	B	19741125	AT 1972-9169	19711207
	CA 960656	A1	19750107	CA 1971-129590	19711207
	FR 2117935	A5	19720728	FR 1971-43996	19711208
	FR 2117935	B1	19750314		
	SU 515454	A3	19760525	SU 1973-1959114	19730824
	SU 576955	A3	19771015	SU 1973-1959113	19730824
PRAI	DE 1970-2060189	A	19701208		
GI	For diagram(s), see printed CA Issue.				
AB	Fourteen title compds. (I, 2-, 3-, 4-, or 5-CONHNHR1; Q = CH2, CH2CH2, CH2CH2O; R = H, 2-Me, 3-Cl; R1 = H, p-ClC6H4CO, p-MeOC6H4CO, p-HOCH2CH2OC6H4CO, o-MeC6H4CO), useful as blood-circulation-active and serum-lipids-lowering agents, were prepared by reaction of tri-O-acetyladenosine with R(R1NHNHCO)C6H3QBr or of adenosine N-[R(EtO2C)C6H3Q] derivative with N2H4.H2O.				
IT	38790-46-4P	38790-49-7P	38790-52-2P		
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	38790-46-4 CAPLUS				
CN	Benzoic acid, 4-methyl-3-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (CA INDEX NAME)				

Absolute stereochemistry.

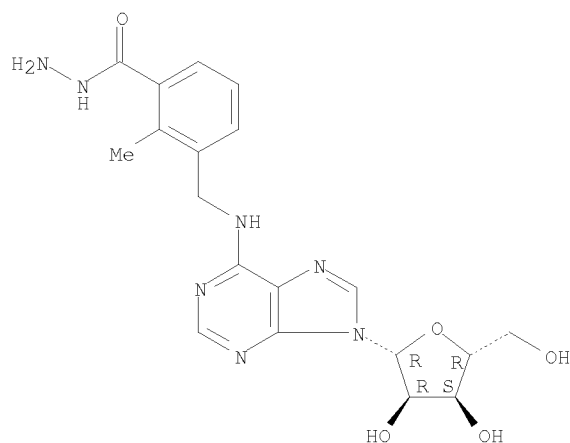


10/540,993

RN 38790-49-7 CAPLUS

CN Benzoic acid, 2-methyl-3-[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (CA INDEX NAME)

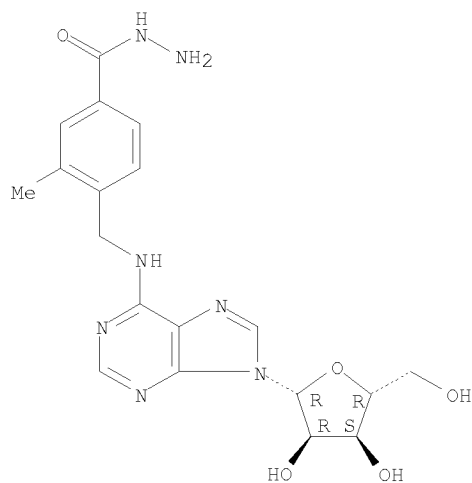
Absolute stereochemistry.



RN 38790-52-2 CAPLUS

CN Benzoic acid, 3-methyl-[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 186 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1972:502139 CAPLUS

DN 77:102139

OREF 77:16847a,16850a

TI N-(Acylbenzyl- and -phenethyl)adenosines

IN Kampe, Wolfgang; Fauland, Erich; Stork, Harald; Juhran, Wolfgang; Dietmann, Karl

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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McIntosh

PI	DE 2059922	A	19720615	DE 1970-2059922	19701205
	US 3817981	A	19740618	US 1971-199727	19711117
	SU 469253	A3	19750430	SU 1971-1723201	19711130
	SU 506294	A3	19760305	SU 1971-1913745	19711130
	NL 7116563	A	19720607	NL 1971-16563	19711202
	GB 1313290	A	19730411	GB 1971-56024	19711202
	CH 567044	A5	19750930	CH 1971-17633	19711202
	CH 573445	A5	19760315	CH 1975-8318	19711202
	FR 2116517	A5	19720713	FR 1971-43419	19711203
	FR 2116517	B1	19750801		
	ZA 7108104	A	19720927	ZA 1971-8104	19711203
	AU 7136493	A	19730607	AU 1971-36493	19711203
	HU 163670	B	19731027	HU 1971-B01334	19711203
	AT 314094	B	19740325	AT 1971-10436	19711203
	CA 960655	A1	19750107	CA 1971-129319	19711203
	AT 323335	B	19750710	AT 1971-323335	19711203
PRAI	DE 1970-2059922	A	19701205		

GI For diagram(s), see printed CA Issue.

AB Forty-five title compds. (I, Y = X, 2-R(R₁)C₆H₃CH₂)nNH; n = 1, 2; R = 3- or 4-carboxy, -alkoxycarbonyl, -carbamoyl, -allylcarbamoyl; R₁ = H, Me; R₂ = H, Cl, OH) (II), useful as hypolipemic agents with effects on circulation, were prepared by reaction of the corresponding I (Y = Cl) (III) with X, 2-R(R₁)C₆H₃(CH₂)nNH₂ and subsequent saponification or amidation. Thus, refluxing III (R₂ = H) and 3-EtO₂C-C₆H₄CH₂CH₂NH₂.HCl in EtOH in the presence of Et₃N for 3 hr gave 65% II (n = 2, R = 3-EtO₂C, R₁ = R₂ = H), which was heated in EtOH at 120° for 15 hr with NH₃ to give 64% II (n = 2, R = 3-H₂NCO, R₁ = R₂ = 5h).

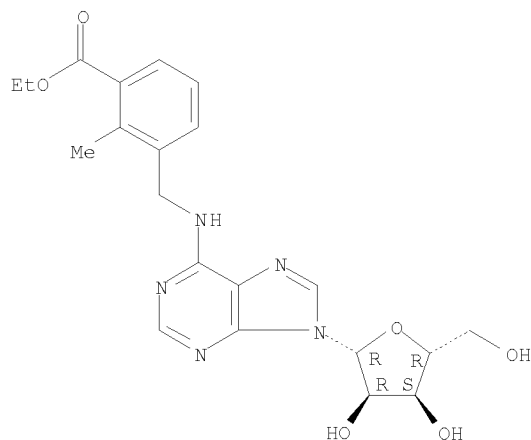
IT 38823-50-6P 38823-56-2P 38823-59-5P
 38823-66-4P 38823-69-7P 38823-72-2P
 38823-79-9P 38823-81-3P 38823-82-4P
 38823-90-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 38823-50-6 CAPLUS

CN Benzoic acid, 2-methyl-3-[[[9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

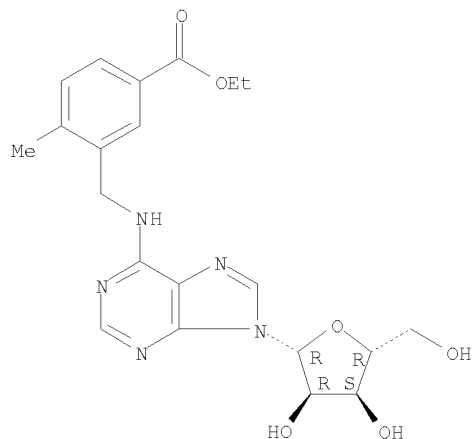


RN 38823-56-2 CAPLUS

CN Benzoic acid, 4-methyl-3-[[[9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

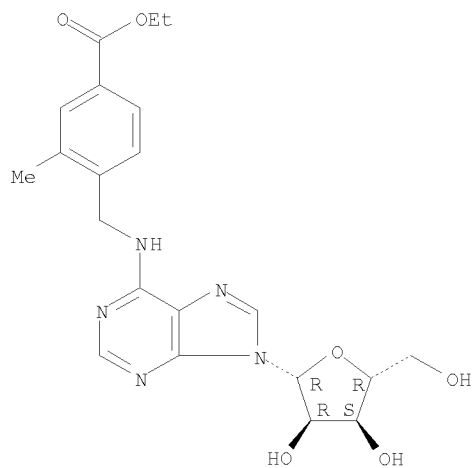
10/540,993



RN 38823-59-5 CAPLUS

CN Benzoic acid, 3-methyl-4-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

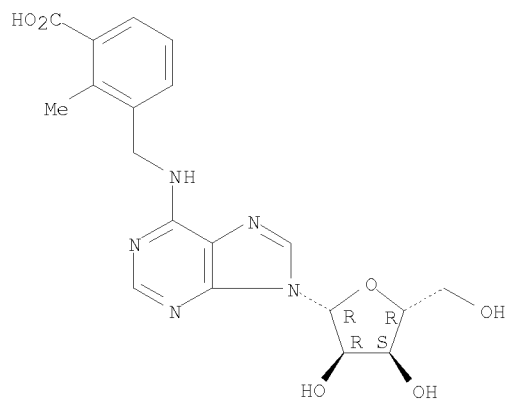
Absolute stereochemistry.



RN 38823-66-4 CAPLUS

CN Benzoic acid, 2-methyl-3-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



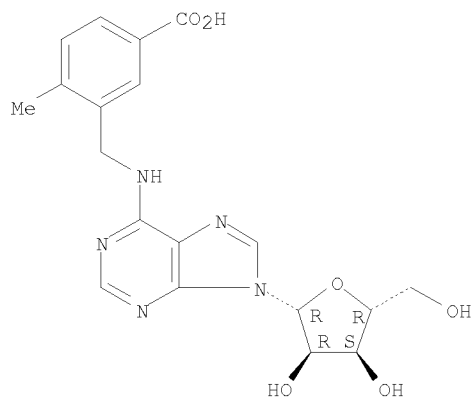
McIntosh

10/540,993

RN 38823-69-7 CAPLUS

CN Benzoic acid, 4-methyl-3-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

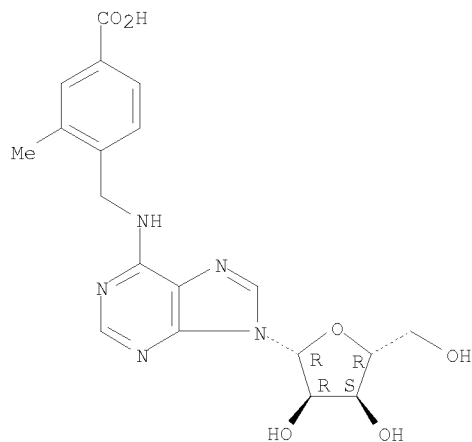
Absolute stereochemistry.



RN 38823-72-2 CAPLUS

CN Benzoic acid, 3-methyl-4-[[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



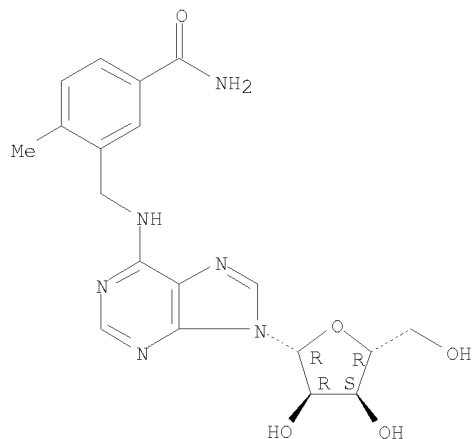
RN 38823-79-9 CAPLUS

CN Adenosine, N-[[[5-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

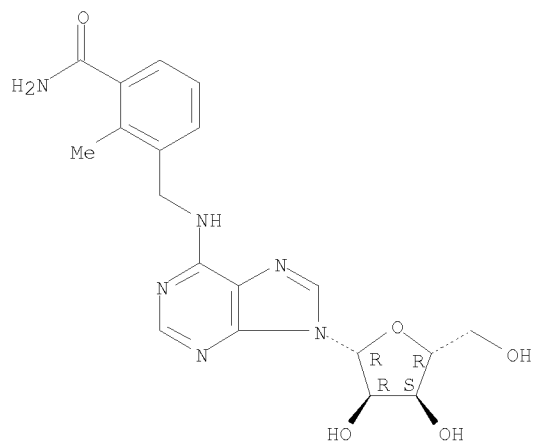
10/540,993



RN 38823-81-3 CAPLUS

CN Adenosine, N-[[3-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



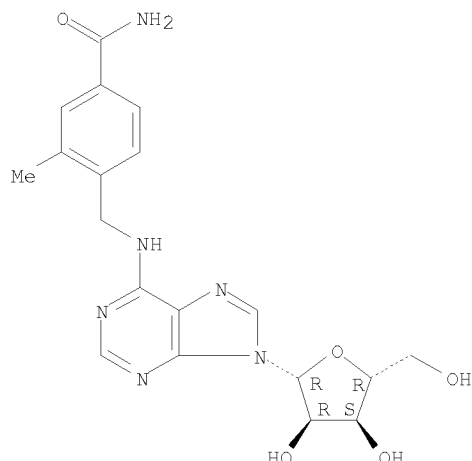
RN 38823-82-4 CAPLUS

CN Adenosine, N-[[4-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

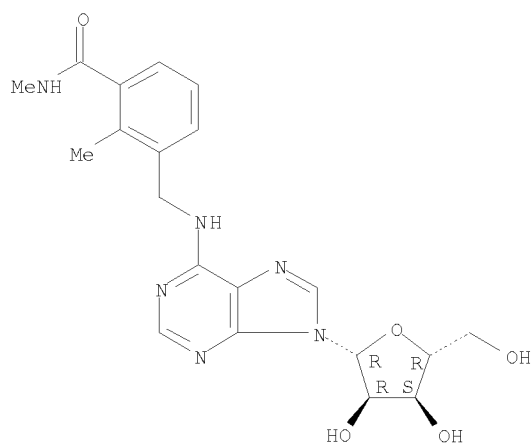
McIntosh

10/540,993



RN 38823-90-4 CAPLUS
CN Adenosine, N-[[2-methyl-3-[(methyamino)carbonyl]phenyl]methyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

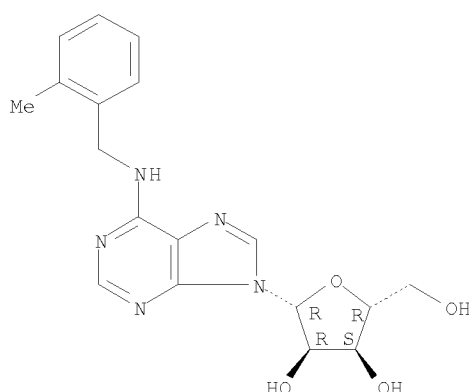
L8 ANSWER 187 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1972:483708 CAPLUS
DN 77:83708
OREF 77:13769a,13772a
TI Clinical-pharmacological studies with a new orally active adenosine derivative
AU Schaumann, E.; Kutscha, W.
CS I. Med. Klin. Mannheim, Univ. Heidelberg, Mannheim, Fed. Rep. Ger.
SO Arzneimittel-Forschung (1972), 22(4), 783-90
CODEN: ARZNAD; ISSN: 0004-4172
DT Journal
LA German
AB Metrifulil [N6-(o-methylbenzyl)adenosine] (I) [23707-33-7] was tested in humans. Administration of 0.03 mg/kg i.v. and of 0.35 mg/kg orally increased the heart rate and cardiac output. Neither impairment of atrioventricular conduction nor other alterations of the electrocardiogram was observed. Uneasiness and other side effects were caused by i.v. and oral administration of 0.1 and 0.47-0.53 mg I/kg, resp. The limit of tolerability was reached earlier if the speed of i.v. infusion exceeded 16 µg/kg/min. No critical changes in circulatory parameters were found. I.v. injection of I caused no inflammation or alteration of the veins. The concentration of serum fatty acids was lowered only by i.v. administration of

McIntosh

10/540,993

I. A 50% absorption of I was estimated by comparing the increase of the heart rate after i.v. and oral administration.
IT 23707-33-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacol. of)
RN 23707-33-7 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

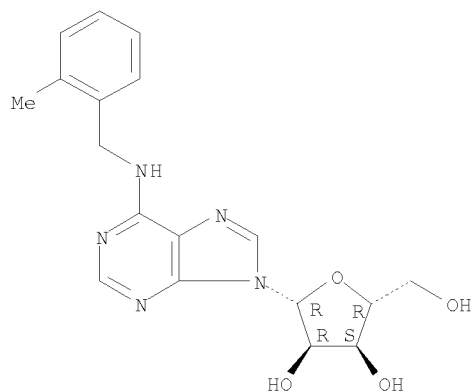


OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L8 ANSWER 188 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1972:154069 CAPLUS
DN 76:154069
OREF 76:25121a,25124a
TI Novel synthesis of N6-substituted adenosines and their coronary dilator activities
AU Shimizu, Bunji; Kaneko, Masakatsu; Saito, Akio; Nishino, Hiroshi; Mizuno, Hiroshi; Nakayama, Koichi; Ohshima, Takeshi; Koike, Hiroyuki
CS Sankyo Res. Lab., Tokyo, Japan
SO Sankyo Kenkyusho Nenpo (1971), 23, 117-23
CODEN: SKKNAJ; ISSN: 0080-6064
DT Journal
LA Japanese
AB N6-Substituted adenosine derivs. (PhCH2, PhCH2CH2, naphthylmethyl, Me2CHCH2, o-MeC6H4-CH2, m-MeC6H4CH2, p-MeC6H4CH2, furfurylmethyl) in addition to N6-benzyl-9-(β-D-arabinofuranosyl)adenine, and N6-benzyl-9-(β-D-glucopyranosyl)adenine were synthesized directly from adenosine by exchange amination reactions of the corresponding purine or pyrimidine bases. The mechanism of formation of these nucleosides and their coronary-dilating activities were described.
IT 23707-33-7P 35940-03-5P 35940-04-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as blood vessel dilators)
RN 23707-33-7 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

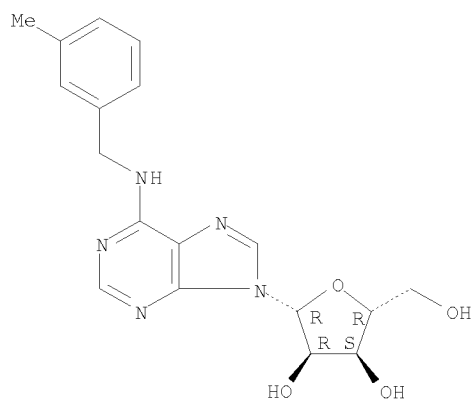
Absolute stereochemistry.

10/540,993



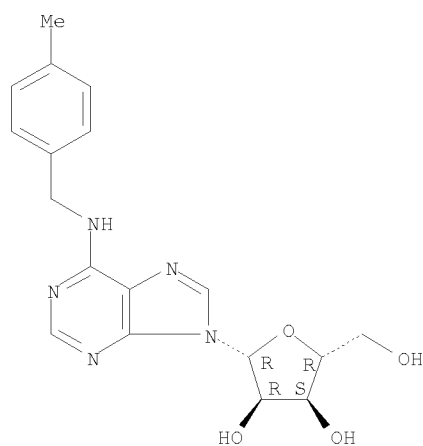
RN 35940-03-5 CAPLUS
CN Adenosine, N-[(3-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 35940-04-6 CAPLUS
CN Adenosine, N-[(4-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 189 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1971:541121 CAPLUS
DN 75:141121

McIntosh

10/540,993

OREF 75:22273a,22276a

TI Coronary dilating N6-benzyladenosines

IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Dietmann, Karl; Juhran, Wolfgang

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2007273	A	19710826	DE 1970-2007273	19700218
	SU 399134	A3	19730927	SU 1971-1616102	19710129
	US 3781273	A	19731225	US 1971-112424	19710203
	NL 7102026	A	19710820	NL 1971-2026	19710216
	DK 123357	B	19720612	DK 1971-694	19710216
	HU 162739	B	19730428	HU 1971-B01274	19710216
	CH 549596	A	19740531	CH 1971-2208	19710216
	CH 549600	A	19740531	CH 1974-2849	19710216
	CA 953714	A1	19740827	CA 1971-105563	19710216
	ZA 7101030	A	19711124	ZA 1971-1030	19710217
	FR 2081524	A5	19711203	FR 1971-5318	19710217
	FR 2081524	B1	19740927		
	AT 306251	B	19730410	AT 1971-1378	19710217
	AT 313483	B	19740225	AT 1972-1233	19710217
	JP 51016440	B	19760524	JP 1971-7691	19710218
	GB 1279946	A	19720628	GB 1971-1279946	19710419
PRAI	DE 1970-2007273	A	19700218		

GI For diagram(s), see printed CA Issue.

AB The title compds. (I, where R = Me, MeS, or MeO, R1 = 5-Me, 5-Cl, 5-MeO, 5-iso-Pr, 5-F, 5-tert-Bu, 3-Me, or 3-Cl) were prepared wither by amination of the 6-chloro derivative or by N1-substitution of adenosine followed by alkaline rearrangement. Thus, 9-(2,3,5-tri-O-acetyl- β -D-ribofuranosyl)-6-chloropurine, 2,5-Me2C6H3CH2NH2, and Et3N in iso-PrOH was refluxed 3 hr and the protective Ac groups cleaved by NaOMe to give 61% I (R = Me, R1 = 5-Me). Similarly prepared were 11 other I.

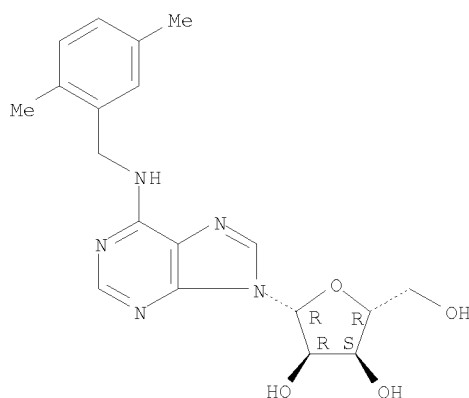
IT 34349-31-0P 34349-32-1P 34349-33-2P
34349-34-3P 34349-35-4P 34349-37-6P
34349-38-7P 34349-39-8P 34349-40-1P
34349-41-2P 34422-72-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 34349-31-0 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



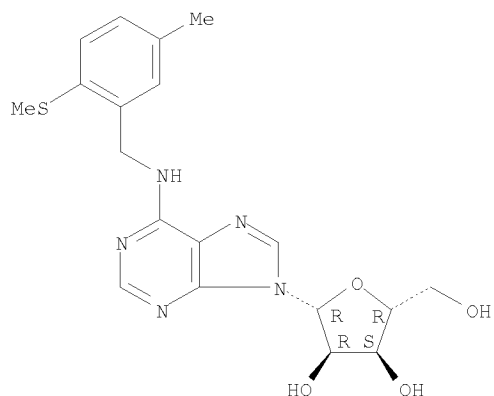
RN 34349-32-1 CAPLUS

CN Adenosine, N-[5-methyl-2-(methylthio)benzyl]- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

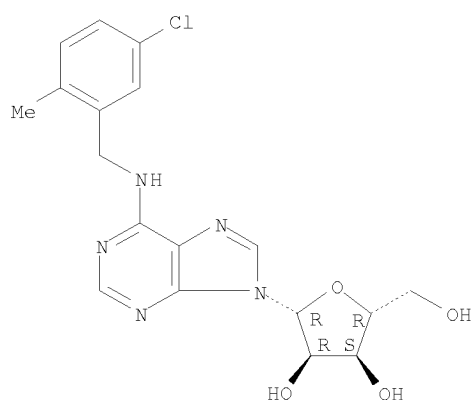
10/540,993



RN 34349-33-2 CAPLUS

CN Adenosine, N-(5-chloro-2-methylbenzyl)- (8CI) (CA INDEX NAME)

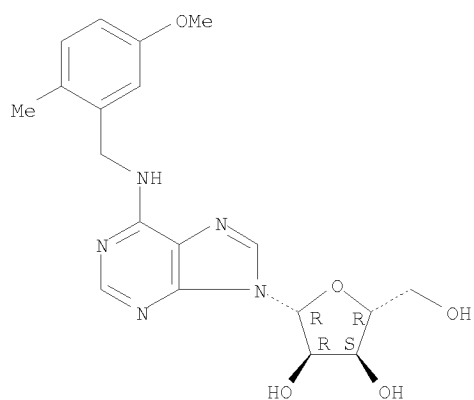
Absolute stereochemistry.



RN 34349-34-3 CAPLUS

CN Adenosine, N-(5-methoxy-2-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



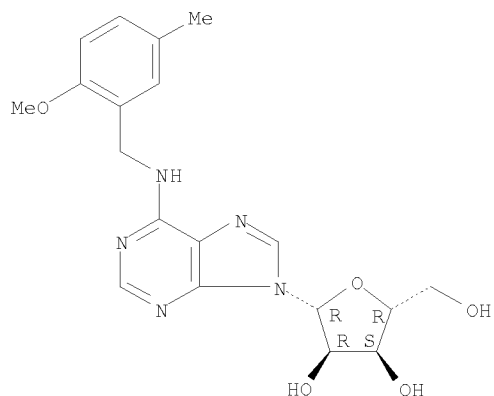
RN 34349-35-4 CAPLUS

CN Adenosine, N-(2-methoxy-5-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

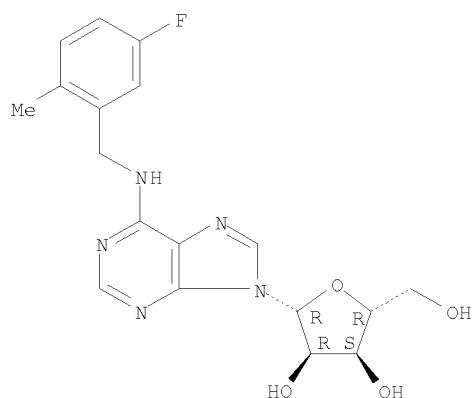
10/540,993



RN 34349-37-6 CAPLUS

CN Adenosine, N-[(5-fluoro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

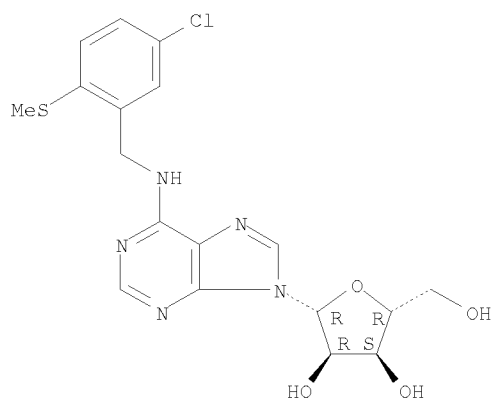
Absolute stereochemistry.



RN 34349-38-7 CAPLUS

CN Adenosine, N-[[5-chloro-2-(methylthio)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



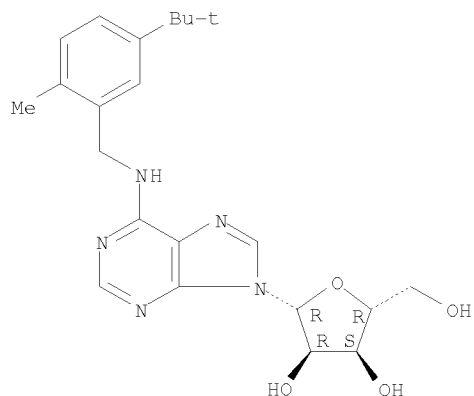
RN 34349-39-8 CAPLUS

CN Adenosine, N-(5-tert-butyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

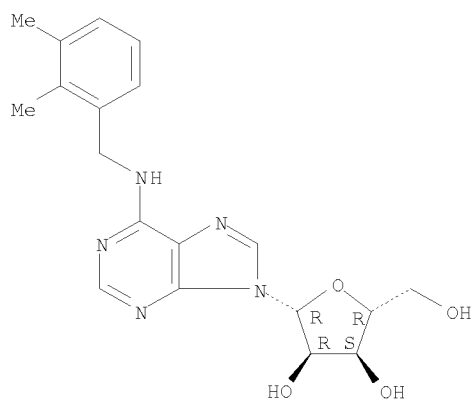
10/540,993



RN 34349-40-1 CAPLUS

CN Adenosine, N-[(2,3-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

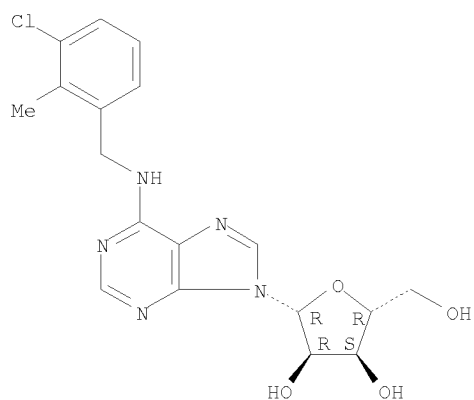
Absolute stereochemistry.



RN 34349-41-2 CAPLUS

CN Adenosine, N-[(3-chloro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



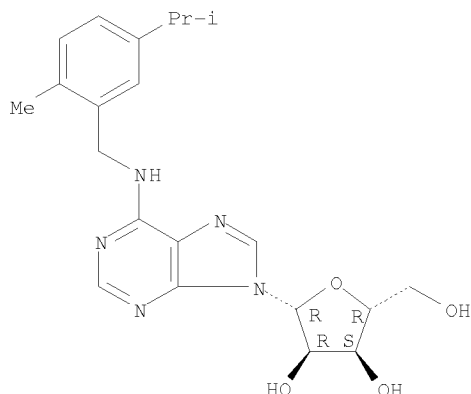
RN 34422-72-5 CAPLUS

CN Adenosine, N-(5-isopropyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

10/540,993



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L8 ANSWER 190 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1971:433660 CAPLUS

DN 75:33660

OREF 75:5316h,5317a

TI Pharmacological effects on coronary reactive hyperemia in conscious dogs

AU Juhran, W.; Voss, E. M.; Dietmann, K.; Schaumann, W.

CS Pharmakol. Lab., Boehringer Mannheim G.m.b.H., Mannheim, Fed. Rep. Ger.

SO Naunyn-Schmiedeberg's Archiv fuer Pharmakologie (1971), 269(1), 32-47

CODEN: NNAPBA; ISSN: 0340-5249

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB In conscious dogs, threshold doses of dipyridamole (I) and lidoflazine (II), which potentiate the dilation of coronary vessels by adenosine, increased reactive hyperemia in response to arterial occlusion lasting >30 sec, whereas threshold doses of coronary dilators, such as N6-(o-methylbenzyl)adenosine (III) and carbochromen (IV), which do not potentiate adenosine, did enhance reactive hyperemia for any duration of occlusion. Theophylline decreased the duration of reactive hyperemia, but not the excess flow. Procaine-HCl infused into the coronary artery caused a dose-dependent reduction of the reactive hyperemia. Apparently, appreciable amts. of adenosine were liberated only during complete anoxia for >30 sec. Under physiol. conditions coronary resistance was probably regulated by a nervous mechanism and not by adenosine liberation.

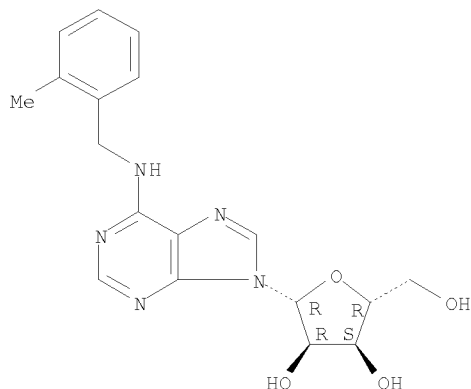
IT 23707-33-7

RL: BIOL (Biological study)
(hyperemia response to)

RN 23707-33-7 CAPLUS

CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



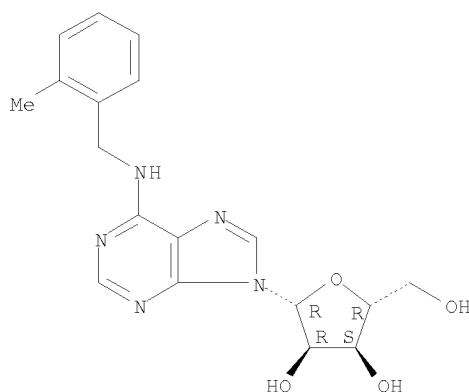
OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

McIntosh

10/540,993

L8 ANSWER 191 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1971:86054 CAPLUS
DN 74:86054
OREF 74:13963a,13966a
TI Inhibition of induced thrombocyte aggregation by adenosine and adenosine derivatives. II. Correlation between inhibition of the aggregation and peripheral vasodilatation
AU Dietmann, Karl; Birkenheier, H.; Schaumann, Wolfgang
CS Med. Forsch., Firma Boehringer Mannheim G.m.b.H., Mannheim-Waldhof, Fed. Rep. Ger.
SO Arzneimittel-Forschung (1970), 20(11), 1749-51
CODEN: ARZNAD; ISSN: 0004-4172
DT Journal
LA German
GI For diagram(s), see printed CA Issue.
AB The ability of adenosine (I) and 20 adenosine derivs. to produce vasodilation in rabbits was correlated with their ability to antagonize ADP-induced thrombocyte aggregation in vitro. The N6-phenylalkyl substituted derivs., N6-(cis, trans-2-phenylcyclopentyl)adenosine and N6-(trans-dl-2-phenylcyclopentyl)adenosine (II), were more active than the aliphatic substituted derivs., 2-chloro-N6-propyl-, 2-chloro-N6-allyl-, and 2-chloro-N6-sec-butyladenosines, as well as the N6-benzyl derivs., 2-chloro-N6-benzyladenosine, 2-amino-N6-(2-chlorobenzyl)adenosine, N6-(o-xyllyl)adenosine, N6-(o-trifluoromethylbenzyl)adenosine, and N6-(3,5-dimethoxybenzyl)adenosine. The most active derivative, II, was half as active as adenosine.
IT 23707-33-7
RL: BIOL (Biological study)
(blood platelet aggregation and vasodilation by)
RN 23707-33-7 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 192 OF 192 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1969:115505 CAPLUS
DN 70:115505
OREF 70:21591a,21594a
TI N6-Aralkyl adenosine derivatives
IN Thiel, Max; Stach, Kurt; Jahn, Werner; Schaumann, Wolfgang; Dietmann, Karl
PA Boehringer, C. F., und Soehne G.m.b.H.
SO S. African, 15 pp.
CODEN: SFXAB
DT Patent
LA English
FAN.CNT 1

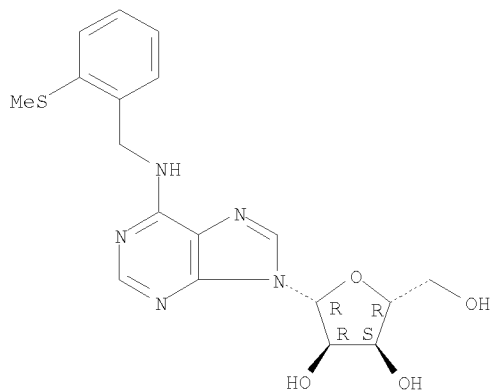
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	ZA 6707414		19680502		
	DE 1670171			DE	
	FR 1550512			FR	
	GB 1145789			GB	

McIntosh

10/540,993

US 3506643 19700414 US 19671018
PRAI DE 19661209
DE 19670711
OS MARPAT 70:115505
GI For diagram(s), see printed CA Issue.
AB The title compds. (1), where halogen, alkyl, alkoxy, F3C or alkylthio, or two substituents may be H or a methylenedioxy, are prepared from the corresponding D-ribosides and benzylamines, or from the corresponding N'-substituted adenosine derivs. Thus, 8.2 g. tri-O-acetyl-6-chloro-9-β-D-ribosyl-9-H-purine and 7.2 g. 2-ClC6H4CH2NH2 in 120 cc. iso-PrOH were refluxed 2 hrs., worked up and the residue dissolved in 100 cc. MeOH, 10 cc. N NaOH solution added and the mixture refluxed 1 hr. to yield 4 g. I (R = 2-Cl), m. 182-3°. The following I were similarly prepared (R and m.p. given): 3,4-Cl2, 182-3°; 4-MeO, 146-7°; 3,4(MeO)2, 135-6°; 3,4,5-(MeO)3, 118-19°; 2,6-Cl2, 207-9°; 4-Cl, 174-5°; 3-Cl, 168-9°; 2-MeO, 147-8°; 2-Me, 157-8°; 3,5-(MeO)2, 191-2°; 2-MeS, 127-8°; 2-F3C, 160-1°; and 3-F3C, 111-12°. To a suspension of 10 g. 2',3'-O-isopropylideneadenosine in 200 cc. MeCN, 10 g. p-BrC6H4Br was added and the mixture refluxed 24 hrs. with stirring. The precipitate which formed was filtered off, dissolved in 150 cc. MeOH and an equal volume 2N NaOH solution was added. The mixture was heated on a steam bath 20 min., extracted with CHCl3, evaporated, and the residue dissolved in 200 cc. HCO2N. Water was added until the mixture became cloudy. The mixture was left standing 1 day at ambient temperature, after which it was evaporated in vacuo, and the residue made weakly alkaline with an aqueous solution of concentrated NH3 to yield 5.8 g. I (R = 4-Br), m. 168-9°. I exhibit an effect on blood vessels and circulation.
IT 23661-00-9P 23707-33-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
RN 23661-00-9 CAPLUS
CN Adenosine, N-[o-(methylthio)benzyl]- (8CI) (CA INDEX NAME)

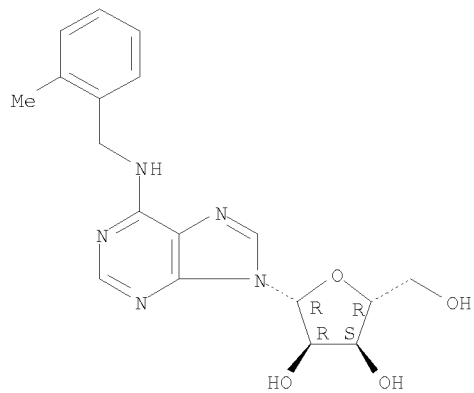
Absolute stereochemistry.



RN 23707-33-7 CAPLUS
CN Adenosine, N-[(2-methylphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

10/540,993



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)